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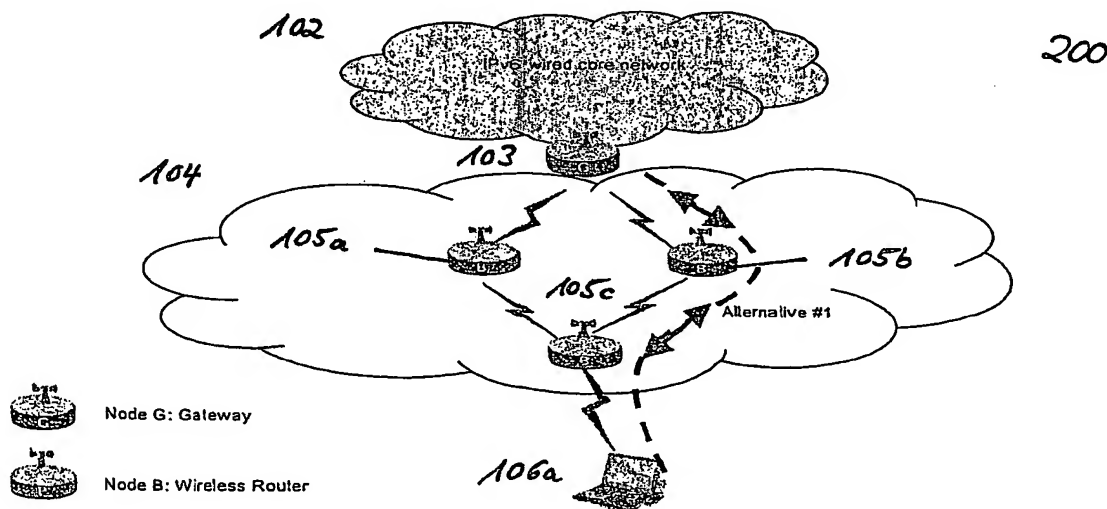
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(54) Title: **BIDIRECTIONAL QoS RESERVATION WITHIN AN IN-BAND SIGNALING MECHANISM**



(57) Abstract: A mechanism for a bidirectional QoS reservation procedure within an in-band signaling mechanism gives symmetric real-time services running on mobile devices, which are used to support different access technologies in dynamic, mobile, wireless IP networks where the quality of the node connectivity can sometimes be unpredictably time-varying, the possibility to mutually reserve, monitor and adapt QoS resources and service parameters for up- and downstream direction along a communication path. The proposed solution thereby optimizes conventional QoS reservation mechanisms, especially for adaptive real-time services in wireless and wireless ad-hoc networks, by making use of a dynamic bidirectional QoS reservation in-band signaling approach. The expression "in-band" refers to a situation where separation between control and user plane data is abandoned.

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